## (19) World Intellectual Property Organization

International Bureau



## I CORDA CHIMICOL II CORDA CHIMI CORDA CORDA CHIMI CON CORDA CORDA

(43) International Publication Date 10 February 2005 (10.02.2005)

**PCT** 

## (10) International Publication Number WO 2005/012852 A1

(51) International Patent Classification<sup>7</sup>: G01V 1/00

G01H 1/00,

(21) International Application Number:

PCT/IT2003/000492

- (22) International Filing Date: 1 August 2003 (01.08.2003)
- (25) Filing Language:

Italian

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): EDIL CONTROL S.r.l. [IT/IT]; Via Giovanni De Agostini, 47, I-00176 Roma (IT).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): MARROCCO, Massimo [IT/IT]; Via Nicolò Tartaglia, 3, I-00197 Roma (IT).
- (74) Agent: FEZZARDI, Antonio; Studio Ferrario, Via Collina, 36, I-00187 Roma (IT).

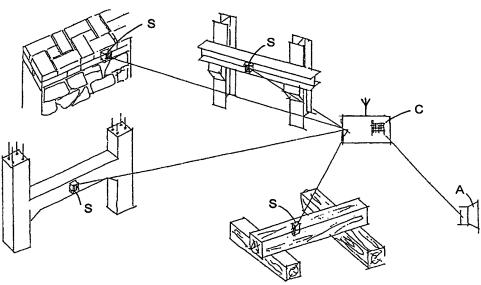
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BUILDING STRUCTURES MONITORING SYSTEM



(57) Abstract: System for monitoring the stability status of building structures made of steel, wood, reinforced concrete or other suitable material, comprising, in combination, a management and control station (C) thereto one or more seismic and/or vibrational sensors (S) of known type are connected, respectively calibrated on the band of the yielding characteristic frequencies peculiar to the bearing structure thereto they are fastened, and at least an acoustic and optical signaller (A) which is activated by the management station (C) itself in case said bearing structures be subjected to stresses so as to induce tensions considered dangerous; thus obtaining that, in case of danger, the present personnel could have the time for abandoning the structures which are going to collapse or for intervening if possible.

